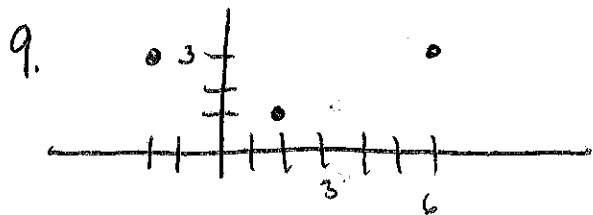


p101-104

9, 12-14, 20, 22, 24, 35, 37-45, 47, 50, 54

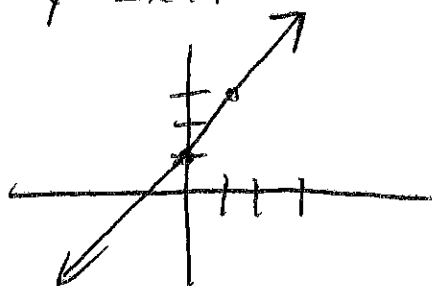


$$D = \{-2, 2, 6\}$$

$$R = \{1, 3\}$$

yes it is a fn.

12. $y = 2x + 1$



$$D: \mathbb{R}$$

$$R: \mathbb{R}$$

Function

13. $f(6) = 5(6) - 9 = 21$

14. $f(-2) = 5(-2) - 9 = -19$

20. $7x - y = -15$

$A = 7$ $B = -1$ $C = -15$

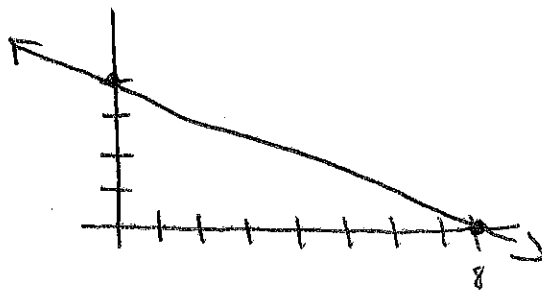
22. $8x - 9y = 72$

$A = 8$ $B = -9$ $C = 72$

24. $6x = -12y + 48$

$$6x + 12y = 48$$

$(0, 4)$ $(8, 0)$

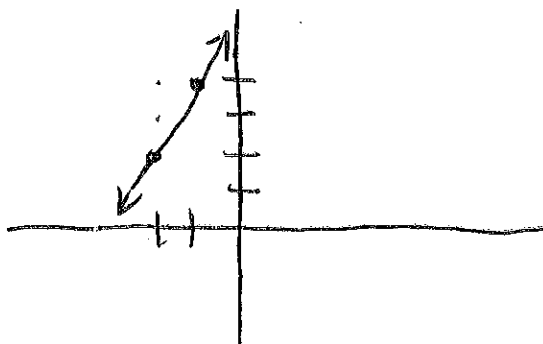


35. $y = 2x + 4$

$$m = 2$$

// slope $m = 2$

$(-2, 2)$



37. $(3, -8) (-3, 2)$

$$m = \frac{-10}{6} = -\frac{5}{3}$$

$$-8 = -\frac{5}{3}(3) + b$$

$$-3 = b$$

$$y = -\frac{5}{3}x - 3$$

38. $(-1, 2)$

$$\parallel x - 3y = 14$$

$$-3y = -x + 14$$

$$y = \frac{1}{3}x - \frac{14}{3}$$

$$m = \frac{1}{3}$$

$$2 = \frac{1}{3}(-1) + b$$

$$\frac{7}{3} = b$$

$$y = \frac{1}{3}x + \frac{7}{3}$$

39. $(3, 2)$

$$\perp 4x - 3y = 12$$

$$-3y = -4x + 12$$

$$y = \frac{4}{3}x - 4$$

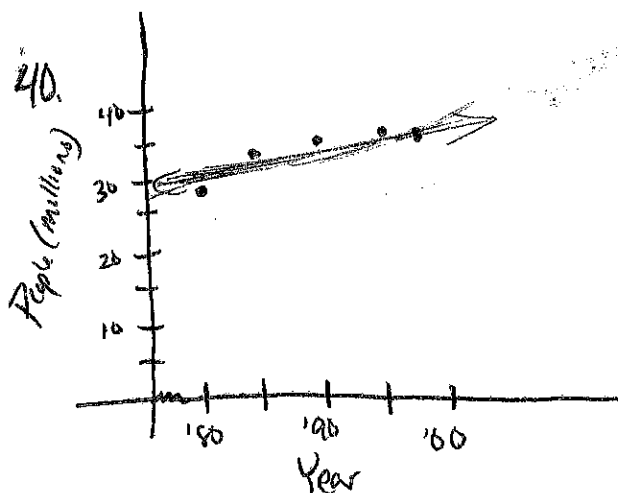
$$m = -\frac{3}{4}$$

$$2 = -\frac{3}{4}(3) + b$$

$$\frac{8}{4} = -\frac{9}{4} + b$$

$$\frac{17}{4} = b$$

$$y = -\frac{3}{4}x + \frac{17}{4}$$



$$(80, 30)$$

$$(95, 35)$$

$$m = \frac{35-30}{95-80} = \frac{5}{15} = \frac{1}{3}$$

$$y = \frac{1}{3}x + b$$

$$30 = \frac{80}{3} + b$$

$$\frac{90}{3} = \frac{80}{3} + b$$

$$\frac{10}{3} = b$$

$$y = \frac{1}{3}x + \frac{10}{3}$$

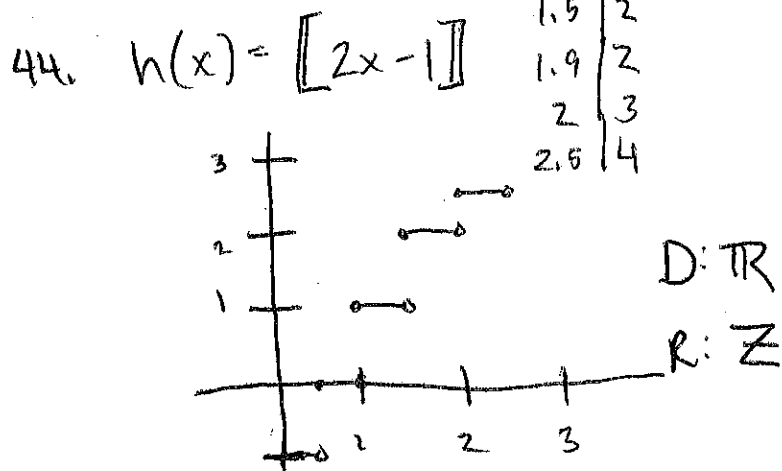
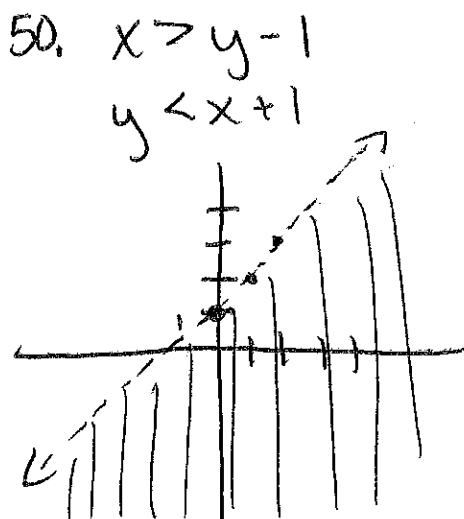
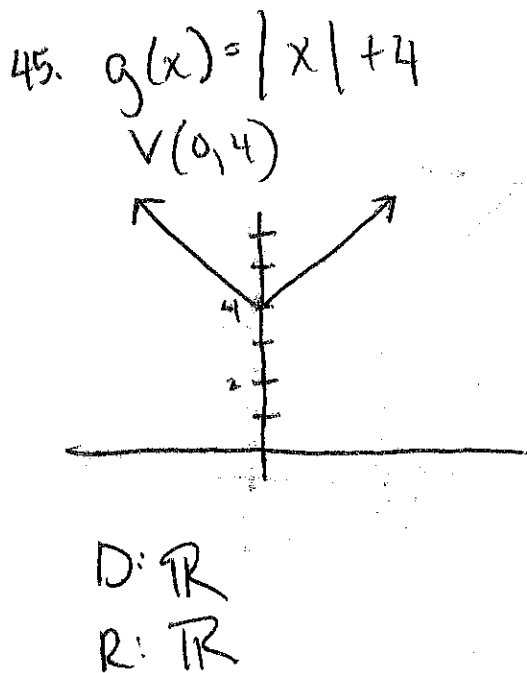
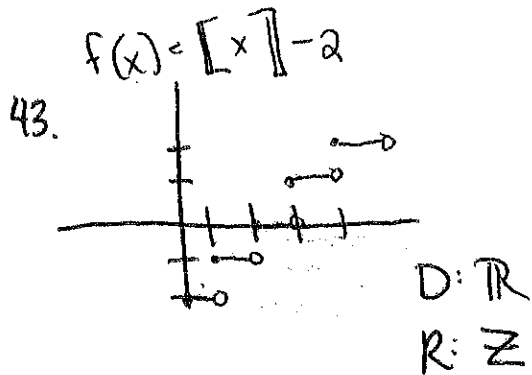
(41)

SAMPLE ANSWER

$$y = \frac{1}{3}(110) + \frac{10}{3}$$

(42)

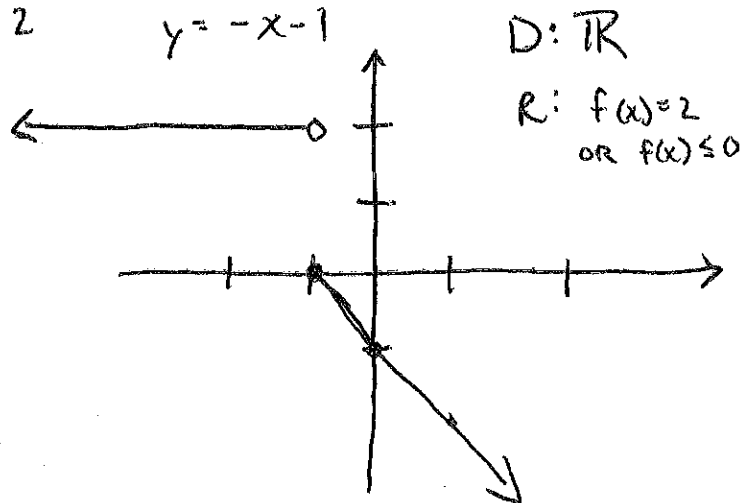
$$y = 40 \quad 40 \text{ million}$$



47. $f(x) = \begin{cases} 2 & \text{if } x < -1 \\ -x - 1 & \text{if } x \geq -1 \end{cases}$

① $y = 2$

② $y = -x - 1$



54. $y > |x - 3|$ V(3, 0)

